			UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231 www.uspto.gov	
APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/936,564	09/14/2001	Sakae Matsumoto	XA-9544	7144
	90 10/30/2002			
MILES & STOCKBRIDGE PC			EXAMINER	
1751 PINNACI SUITE 500			VAN PELT, BRADLEY J	
MCLEAN, VA	22102-3833		ART UNIT	PAPER NUMBER
			3682	
			DATE MAILED: 10/30/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)
	09/936,564	MATSUMOTO ET AL.
Office Action Summary	Examiner	Art Unit
	Bradley J Van Pelt	3682
The MAILING DATE of this communica	tion appears on the cover shee	et with the correspondence address
Period for Reply		
 A SHORTENED STATUTORY PERIOD FOR THE MAILING DATE OF THIS COMMUNICA Extensions of time may be available under the provisions of 3 after SIX (6) MONTHS from the mailing date of this communia If the period for reply specified above is less than thirty (30) d If NO period for reply specified above, the maximum statute Failure to reply within the set or extended period for reply will Any reply received by the Office later than three months after earned patent term adjustment. See 37 CFR 1.704(b). 	ATION. 87 CFR 1.136(a). In no event, however, ma cation. lays, a reply within the statutory minimum of ory period will apply and will expire SIX (6) , by statute, cause the application to becom	ay a reply be timely filed of thirty (30) days will be considered timely. MONTHS from the mailing date of this communication. ne ABANDONED (35 U.S.C. § 133).
1) Responsive to communication(s) filed	on	
) This action is non-final.	
, <u> </u>	or allowance except for formal	matters, prosecution as to the merits is
closed in accordance with the practice Disposition of Claims	e under <i>Ex parte Quayle</i> , 1935	5 C.D. 11, 453 O.G. 213.
4)⊠ Claim(s) <u>1 and 2</u> is/are pending in the	application.	
4a) Of the above claim(s) is/are	withdrawn from consideration.	
5) Claim(s) is/are allowed.		
6)⊠ Claim(s) <u>1 and 2</u> is/are rejected.		
7) Claim(s) is/are objected to.		
8) Claim(s) are subject to restrictio	n and/or election requirement	
Application Papers		
9) The specification is objected to by the E	Examiner.	
10) The drawing(s) filed on is/are: a)	accepted or b) objected to	by the Examiner.
Applicant may not request that any object	tion to the drawing(s) be held in a	beyance. See 37 CFR 1.85(a).
11) The proposed drawing correction filed o	n is: a) 🗌 approved b)[disapproved by the Examiner.
If approved, corrected drawings are requi	red in reply to this Office action.	
12) The oath or declaration is objected to by	y the Examiner.	
Priority under 35 U.S.C. §§ 119 and 120		
13) Acknowledgment is made of a claim fo	r foreign priority under 35 U.S	.C. § 119(a)-(d) or (f).
a)⊠ All b)∏ Some * c)∏ None of:		
1. Certified copies of the priority do	cuments have been received.	
2. Certified copies of the priority do	cuments have been received	in Application No
3. Copies of the certified copies of application from the Internati * See the attached detailed Office action f	onal Bureau (PCT Rule 17.2(a	a)).
14) Acknowledgment is made of a claim for	domestic priority under 35 U.S	S.C. § 119(e) (to a provisional application
a) The translation of the foreign languesistic translation of the foreign languesist languesist (a) The translation of the foreign languesist (b) The translation of the translation of the foreign languesist (b) The translation of translation o		
Attachment(s)	- -	
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO Information Disclosure Statement(s) (PTO-1449) Pape 		view Summary (PTO-413) Paper No(s) e of Informal Patent Application (PTO-152)

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DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

2. Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over Yamaguchi (USPN 4,098,141) in view of Nagazumi (USPN 3,899,937). Yamaguchi discloses a coupling structure of extensible shafts fig. 2, characterized by comprising: an inner shaft (13) having a fitting portion; an outer shaft (16) having a fitting portion so fitted to said fitting portion of said inner shaft as to be extensible in the axial direction and incapable of rotating; a concave groove (g) formed in said fitting portion of said inner shaft; filling holes (h), formed in said fitting portion of said outer shaft, through which said concave groove is filled with a resin (15); and resinous slide portions thus formed on said fitting portions of said inner and outer shafts. Yamaguchi, however, does not disclose a low frictional member that is attached to an inner peripheral surface of a front side end of said fitting portion of said outer shaft.

Nagazumi renders obvious a collapsible steering column assembly, fig. 5a, with a low frictional member (66) that is attached to an inner peripheral surface of a front side end of a fitting portion of an outer shaft (30). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the apparatus of Yamaguchi to include a low frictional member on the inner shaft for the purpose of easing the collapsing process of a steering column.

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3. Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Yamaguchi in view of Nagazumi as applied to claim 1 above, and further in view of Eming (USPN 5,806,985). Eming renders obvious a low frictional member constructed of a ring (1), fig. 3, made of a synthetic resin (see column 3 lines 15-24) adapted for the use in a structure of extensible shafts. It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the reference combination set forth above to include a low frictional ring member for the purpose of easing the collapsing process of a steering column.

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The following includes collapsible shafts like that of the instantly claimed invention: Stephan (USPN 4,183,258), Sato et al (USPN 5,225,720), Moriyama (USPN 5,791,686), Aota et al (USPN 5,954,362).

SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 3600

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5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bradley J Van Pelt whose telephone number is (703)305-8176. The examiner can normally be reached on M-Th 7:00-4:30, 2nd F 7:00-3:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David A Bucci can be reached on (703)308-3668. The fax phone number for the organization where this application or proceeding is assigned is (703)305-3597.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)308-2168.

BJVP JU October 17, 2002